

Paige®

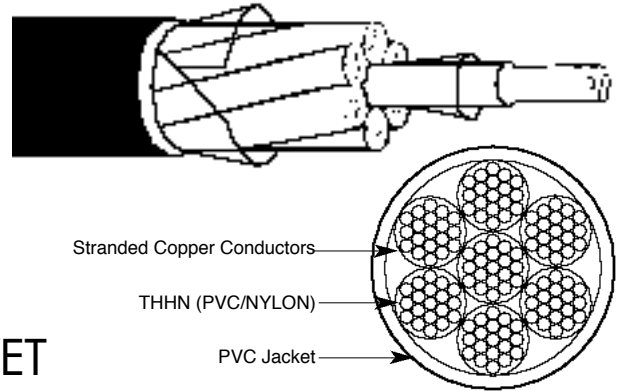
agwire spec

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P7266D-AG



**CONTROL OR
INSTRUMENTATION CABLE**
INSULATION: HIGH DIELECTRIC PVC
JACKET: PVC, SIZES: 18 - 10 AWG
UL LISTED TYPE TC 600 VOLTS
VW-1 RATED, 90°C DRY, 75°C WET



1.0 SCOPE:

1.1 This specification covers multiconductor cables having TFFN or VW-1 THHN/ THWN (PVC/Nylon) conductors with an overall polyvinyl chloride (PVC) jacket, conforming to Article 318 "Cable Trays" and Article 340 "Power and Control Cable Type TC" of the 1981 National Electrical Code, and Subject 1277 of Underwriters Laboratories, inc. Meets the requirements of the 70,000 BTU "Cable Tray Propagation Test" per IEEE-383 and shows reserve capabilities by also passing the 210,000 BTU flame test. Rated 600 volts, 90°C dry and 75°C wet.

1.2 Use:
UL listed and OSHA acceptable. Recognized for use in Class 1, Division 2 hazardous locations and for installation in trays, wireways, troughs, channels, ducts, and conduit. Specifically approved for direct burial, wet or dry locations and outdoors in cable trays where a sunlight resistant rating is required. Designed for control, power, lighting, telemetering, signals and relay or traffic control.

2.0 CONSTRUCTION:

2.1 Conductors:
Bare, soft annealed copper per ASTM B-3 SIZES 18 AND 16 AWG (TFFN)
Bunch stranded, class K (.010" #30 strands) ASTM B-174 and UL-62 paragraph 8.1 SIZES 14, 12 AND 10 AWG (THHN/THWN)
Concentric stranded, class C (19 strands) ASTM B-8 and UL-83 table 4.1

2.2 Insulation:
HIGH DIELECTRIC POLYVINYL CHLORIDE
UL-83 table 13.1 (THWN 75°C)
UL-83 table 14.1 (THHN 90°C)
UL-62 part 24 class 12B (TFFN 90°C)

THICKNESS

UL-83 table 21.5 for THHN/THWN
UL-62 table 5.2 for TFFN

2.3 Insulation Armor:

NYLON
UL-83 paragraph 35.1 for THHN/THWN
UL-62 paragraphs 64.1 and 64.2 for TFFN
THICKNESS
UL-83 table 21.5 for THHN/THWN
UL-62 paragraph 68.4 for TFFN

2.4 Cable Assembly:

Three or more conductors are assembled round with PVC fillers as needed. A tape binder is applied over the assembly. Two conductors are assembled flat parallel (round, with PVC fillers as needed, is available upon request).

2.5 Overall Jacket:

Polyvinyl chloride UL-62 part 22 class 12
Thickness specified herein

2.6 Color Code:

Dual color code ICEA Method 1 using solid colors with stripes in accordance with Table K-2 on one side and a modified ICEA Method 4 using alpha-numerica printing on the other side. (See color code table on back.)

2.7 Markings:

Ink print on one side of jacket "(size) AWG Type TC 90°C dry 75°C wet Sunlight Resistant 600V (UL) Direct Burial". Indent print on other side of jacket "(number of conductors)"

2.8 Construction Options:

Consult factory for cable specifications with appropriate shields.

3.0 COLOR CODE:

3.1 ICEA Method 1 using solid colors with spiral stripes in accordance with Table K-2.

4.0 CONDUCTOR DATA:

COND. NUMBER	BASE COLOR	SPIRAL STRIPE
1	Black	—
2	Red	—
3	Blue	—
4	Orange	—
5	Yellow	—
6	Brown	—
7	Red	Black
8	Blue	Black
9	Orange	Black
10	Yellow	Black
11	Brown	Black
12	Black	Red

COND. NUMBER	BASE COLOR	SPIRAL STRIPE
13	Blue	Red
14	Orange	Red
15	Yellow	Red
16	Brown	Red
17	Black	Blue
18	Red	Blue
19	Orange	Blue
20	Yellow	Blue
21	Brown	Blue
22	Black	Orange
23	Red	Orange
24	Blue	Orange

COND. NUMBER	BASE COLOR	SPIRAL STRIPE
25	Yellow	Orange
26	Brown	Orange
27	Black	Yellow
28	Red	Yellow
29	Blue	Yellow
30	Orange	Yellow
31	Brown	Yellow
32	Black	Brown
33	Red	Brown
34	Blue	Brown
35	Orange	Brown
36	Yellow	Brown

SIZE (AWG)	STRANDS N O /O.D. (INCHES)	PVC INSUL. (INCHES)	NYLON ARMOR (INCHES)	APPROX. O.D. (INCHES)
18	16/.010	.015	.004	.091
16	26/.010	.015	.004	.103
14	19/.0147	.015	.004	.119
12	19/.0185	.015	.004	.137
10	19/.0234	.020	.004	.171

4.01 PART NUMBER:

TO SPECIFY A SPECIFIC PART NUMBER ADD AWG SIZE, PLUS THE NUMBER OF CONDUCTORS TO THE PART NUMBER. FOR EXAMPLE: 3 CONDUCTORS, 8 AWG IS (P7266D)-8/3.

5.0 CABLE DATA:

NO. OF CONDS.	18 AWG			16 AWG			14 AWG			12 AWG			10 AWG		
	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)
2 FL	45	.20 x .29	41	45	.20 x .31	49	45	.22 x .34	64	45	.24 x .37	83	45	.27 x .44	115
2 RD	45	.29	46	45	.31	54	45	.34	71	45	.37	93	45	.45	127
3	45	.30	50	45	.32	66	45	.35	87	45	.39	113	45	.47	167
4	45	.32	60	45	.35	79	45	.39	107	45	.43	145	45	.52	212
5	45	.35	71	45	.38	94	45	.42	129	45	.47	175	60	.60	269
6	45	.38	85	45	.41	109	45	.46	147	45	.51	199	60	.65	317
7	45	.38	89	45	.41	118	45	.46	162	45	.51	223	60	.65	352
8	45	.40	99	45	.44	133	45	.49	184	60	.58	268	60	.70	399
9	45	.43	112	45	.47	147	60	.56	221	60	.62	304	60	.75	445
10	45	.45	121	45	.49	162	60	.58	237	60	.65	327	60	.78	490
11	45	.46	130	45	.51	176	60	.60	257	60	.67	357	60	.81	527
12	45	.47	156	45	.52	202	60	.61	281	60	.68	388	60	.83	579
13	45	.49	158	60	.57	217	60	.63	293	60	.71	413	80	.90	657
14	45	.50	160	60	.59	230	60	.65	316	60	.73	442	80	.93	706
15	45	.52	169	60	.60	243	60	.67	340	60	.75	466	80	.95	750
16	60	.56	192	60	.62	258	60	.69	356	60	.77	500	80	.98	795
17	60	.57	203	60	.63	274	60	.71	375	60	.80	530	80	1.01	844
18	60	.59	214	60	.65	284	60	.73	393	60	.82	558	80	1.03	893
19	60	.59	220	60	.65	296	60	.73	408	60	.82	581	80	1.03	918
20	60	.60	228	60	.67	310	60	.75	424	80	.88	647	80	1.06	975
21	60	.62	239	60	.68	327	60	.76	450	80	.90	680	80	1.08	1011
22	60	.63	251	60	.70	340	60	.78	469	80	.92	711	80	1.12	1058
23	60	.64	259	60	.71	353	60	.80	488	80	.94	738	80	1.14	1104
24	60	.65	268	60	.72	367	60	.81	508	80	.95	768	80	1.15	1151
25	60	.66	279	60	.73	379	60	.82	526	80	.97	796	80	1.17	1204
26	60	.67	287	60	.74	391	80	.88	582	80	.98	822	80	1.19	1238
27	60	.67	298	60	.75	405	80	.89	601	80	.99	850	80	1.20	1273
28	60	.69	306	60	.76	418	80	.90	621	80	1.01	880	80	1.23	1317
29	60	.69	314	60	.77	431	80	.91	640	80	1.02	907	80	1.24	1360
30	60	.71	325	60	.79	456	80	.93	666	80	1.05	938	80	1.27	1404
31	60	.71	333	60	.79	458	80	.94	679	80	1.05	964	The data listed above is approximate and subject to normal manufacturing tolerances. Specifications are subject to change without notice.		
32	60	.72	343	60	.81	507	80	.95	698	80	1.07	992			
33	60	.74	353	60	.82	522	80	.97	718	80	1.09	1022			
34	60	.74	361	60	.83	536	80	.98	737	80	1.10	1050			
35	60	.75	371	80	.88	549	80	.99	756	80	1.11	1077			
36	60	.77	381	80	.89	564	80	1.01	780	80	1.13	1106			
37	60	.77	390	80	.89	580	80	1.01	794	80	1.13	1134			